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17 October 1966

MEMORANDUM FOR THE PECOED

U-2R Technical Discussion with at Burbank on 13 October 1966.

LAC.

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- 1. Data obtained from the Ames wind tunnel tests of the U-SR 1/15 scale model were reviewed. These data were untrimmed and were run at slightly lover than full-scale Reynold's number. (Test RN - 3.0 x 108/ft. vs. full scale $RR = 4.5 \times 10^{6}/rt.$).
- 2. The slope of the C_L vs. C_M curve was the same as estimated indicating acceptable static longitudinal stability. The drag coefficient at the maximum altitude cruise CL - .75 and cruise Mach number - .72 was slightly less than estimated but would probably increase slightly for trim effects. At the maximum range cruise $C_L = .50$ and Mach number = .73, the test drag coefficient was approximately 7% higher than estimated and will be increased slightly more due to trim effects. The net result of these data is a confirmation of the maximum altitude range estimate and a potential maximum cruise range reduction below the estimate.
- 3. The increased U-2k none volume of 39 cu. ft. is made up of approximately 32 cu. ft. forward of the front pressure bulkhead (U-2R = 48.8 cu. ft., U-2C = 17.5 cu. ft.) and 7 cu. ft. aft of the front pressure bulkhead due to increased width and depth of the fuselage contour.

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